



# CITY COUNCIL

## AGENDA REQUEST

|   |   |  |   |
|---|---|--|---|
| <b>AGENDA OF:</b>   | <b>05-03-11</b>   | <b>AGENDA REQUEST NO:</b>              | <b>V-J</b>  |
| <b>INITIATED BY:</b>  | <b>IDAHOA IGBINOBA, R.S., PMP</b><br>ENGINEER I <i>IUI</i>  | <b>RESPONSIBLE DEPARTMENT:</b>         | <b>ENGINEERING</b>  |
| <b>PRESENTED BY:</b>  | <b>TIMOTHY JAHN, P.E.,</b> <i>TWJ</i><br>ENGINEER IV  | <b>DEPARTMENT HEAD:</b>                | <b>CHRISTOPHER STEUBING, P.E.,</b><br>CFM, CITY ENGINEER <i>CLS</i> |
|   |   | <b>ADDITIONAL DEPARTMENT HEAD (S):</b> | <b>SUELLEN STAGGS, DIRECTOR</b><br>OF UTILITIES <i>SS</i>           |
| <b>SUBJECT / PROCEEDING:</b>  | <b>EAST AND WEST INTERCEPTOR REHABILITATION – CIP WW0904</b><br><b>AUTHORIZE CONSTRUCTION CONTRACT WITH REYNOLDS INLINER, LLC</b>               |  |   |
| <b>EXHIBITS:</b>  | <b>LOCATION MAP</b><br><b>HDR ENGINEER, INC. RECOMMENDATION LETTER W/BID TAB</b><br><b>SIGNED CONSTRUCTION CONTRACT W/REYNOLDS INLINER, LLC</b> |  |   |
| <b>CLEARANCES</b>   |   | <b>APPROVAL</b>                        |   |
| <b>LEGAL:</b>   | <b>N/A</b>  | <b>ASST. CITY MANAGER:</b>             | <b>KAREN DALY</b> <i>kd</i>   |
| <b>PURCHASING:</b>  | <b>TODD REED, CPPB</b> <i>TR</i><br>PURCHASING MANAGER  | <b>ASST. CITY MANAGER:</b>             | <b>N/A</b>  |
| <b>BUDGET:</b>  | <b>JENNIFER BROWN</b> <i>JB</i><br>BUDGET & RESEARCH DIRECTOR   | <b>CITY MANAGER:</b>                   | <b>ALLEN BOGARD</b> <i>Allen Bogard</i>                             |
| <b>BUDGET AND FUNDING SOURCE</b>  |   |  |   |
| <b>EXPENDITURE REQUIRED: \$</b>   |   | <b>2,206,869.00</b>                    |   |
| <b>CURRENT BUDGET: \$</b>   |   | <b>2,541,850.00</b>                    |   |
| <b>ADDITIONAL FUNDING: \$</b>   |   | <b>N/A</b>                             |   |
| <b>RECOMMENDED ACTION</b>   |   |  |   |
| Authorize execution of a construction contract with Reynolds Inliner, LLC for the East and West Interceptor Rehabilitation Project Phase II, WW0904, in a maximum amount of \$2,206,869.00. |   |  |   |

## EXECUTIVE SUMMARY

The City's north wastewater collection system consists of two major interceptor trunk mains, the west and east interceptors, which were constructed in 1974 and 1985, respectively. Both interceptors receive flow from several lift stations and gravity service areas and are responsible for conveying a large percentage of the North Wastewater Treatment Plant's (North WWTP) designed average daily flow of 6.0 million gallons.

Due to the critical nature of the interceptors, a TV inspection was completed on both mains in 2006. The inspection identified severe deterioration in the west interceptor and intermittent deterioration of the east interceptor. The evaluation recommended complete rehabilitation of the west interceptor and rehabilitation of the deteriorated segments of the east interceptor. The project was divided into two phases. Phase I of the project, which was recently completed, included approximately 6,656 L.F. of 36-inch to 48-inch sewer pipe and associated manholes.

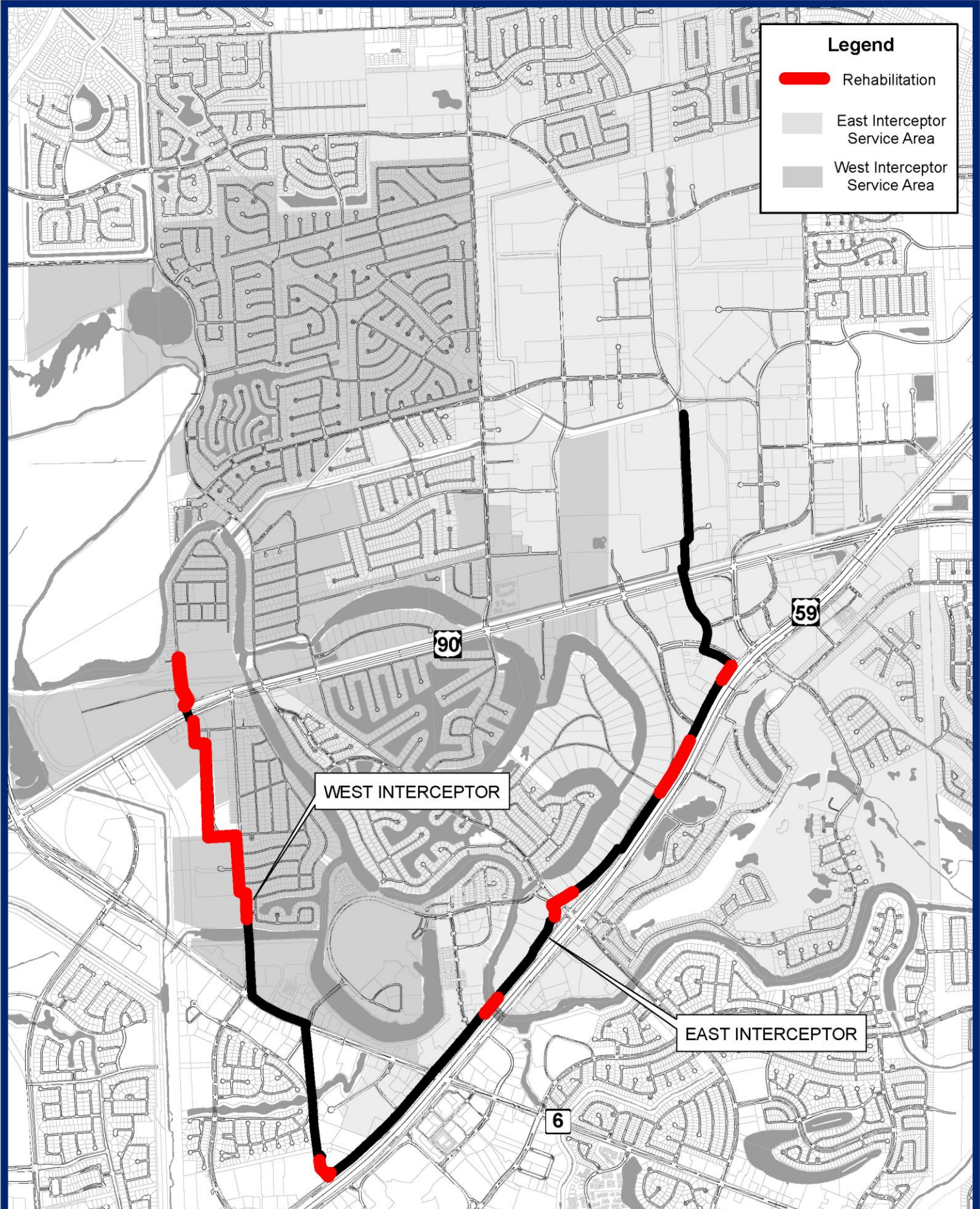
Phase II of the project will include approximately 6,000 L.F. of 36-inch sewer pipe, 630 L.F. of 48-inch and about 1200 L.F. of 42-inch sewer pipes which will complete the rehabilitation on the West Interceptor. The project scope also includes some line segments and manholes on the East Interceptor and the replacement of the existing manhole rings and covers to upgraded traffic rated ring and covers along State Highway 6 between Fluor Daniel Drive and Brooks Street.

HDR Engineering, Inc. (HDR) completed the Phase II Design in December 2010 and an Invitation to Bid was advertised on March 16 and 23, 2011. Three bids were received on April 7, 2011 and construction costs ranged from \$2,206,869.00 to \$2,281,118.30. The lowest responsible bidder is Reynolds Inliner, LLC with a total bid of \$2,206,869.00 (base bid plus two add alternates). The add alternates include a combined length of 1,025 feet of cured in-place lining for 48" sanitary sewer, and were split into two add alternate items to allow flexibility in selecting best options for the City.

HDR completed an extensive reference review and evaluation and provided a letter of recommendation indicating Reynolds Inliner, LLC is capable of completing a project of this nature and that the bid is fair and equitable based on the scope of work and current material and labor costs for this type of project. Funding for this construction phase is budgeted in WW0904. Upon the issuance of the Notice to Proceed, the project is scheduled to be completed in 330 calendar days.

The Engineering and Utilities Departments recommend that the City Council authorize the execution of a construction contract with Reynolds Inliner, LLC for the East and West Interceptor Rehabilitation Project Phase II, CIP WW0904 in a maximum amount of \$2,206,869.00.

## EXHIBITS



# CITY OF SUGAR LAND

East & West Interceptor Rehabilitation Project - Phase II  
CIP No. WW0904





April 12, 2011

Mr. Idahosa U. Igbinoba  
Engineer I  
2700 Town Center Blvd. North  
Sugar Land, Texas 77479

Re: East and West Sanitary Sewer Interceptor Rehabilitation Project – Phase 2  
City of Sugar Land  
HDR/C&M Job No. 10-052

Dear Mr. Igbinoba,

On April 7, 2011, the City of Sugar Land received three (3) bids for the above referenced project. The project involves the rehabilitation of approximately 6,000 linear feet of 36-inch and 1,450 linear feet of 42-inch sanitary sewer trunk main and associated manhole rehabilitation work. This project also includes two (2) Add Alternate bids that include rehabilitation of approximately 1,025 linear feet of 48-inch sanitary sewer trunk main.

The following is a summary of our bid evaluation:

**Bid Tabulation Sheet** – Three (3) construction firms participated in the bidding process. Each bid was checked for mathematical errors and/or bid irregularities. The project was bid with a base bid and two (2) add alternate bids. As directed by City staff, the two add alternate bids were utilized as a basis for award of this contract. The bids for the total project are as follows:

| Contractor          | Total Base Bid<br>(Base plus<br>Supplemental) | Add<br>Alternate<br>No. 1 Bid | Add<br>Alternate<br>No. 2 Bid | Total Bid      |
|---------------------|---|-------------------------------|-------------------------------|----------------|
| Reynolds Inliner    | \$1,914,744.00                                | \$176,700.00                  | \$115,425.00                  | \$2,206,869.00 |
| Insituform          | \$1,932,302.50                                | \$164,300.00                  | \$131,220.00                  | \$2,227,822.50 |
| RePipe Construction | \$1,896,743.30                                | \$232,500.00                  | \$151,875.00                  | \$2,281,118.30 |

A copy of the bid tabulation is attached.

Based on the total bid, Reynolds Inliner, LLC., was the low bidder for the project. HDR/C&M has worked with Reynolds Inliner, LLC. on other projects with other municipalities. Reynolds Inliner, LLC. has performed satisfactorily on these projects. Reynolds Inliner, LLC. appears to be a responsible firm that is capable of performing the specified work in a satisfactory manner.

HDR Engineering, Inc.  
Texas Registered Engineering Firm F-754

4635 Southwest Freeway  
Suite 1000  
Houston, TX 77027-7139

Phone: (713) 622-9264  
Fax: (713) 622-9265  
www.hdrinc.com

For these reasons, we recommend that the City of Sugar Land award the East and West Sanitary Sewer Interceptor Rehabilitation Project – Phase 2 to Reynolds Inliner, LLC. for the total amount of \$2,206,869.00.

Sincerely,

HDR | CLAUNCH & MILLER



Jose D. Maldonado, P.E.  
Project Manager

Cc: Mr. Timothy W. Jahn, P.E. – City of Sugar Land  
Mr. Madhu Kilambi, P.E. – HDR|Claunch & Miller

|                |  |      |       | LOW BIDDER             |              |                               |                |                           |              |
|----------------|--|------|-------|------------------------|--------------|-------------------------------|----------------|---------------------------|--------------|
| ITEM           | ITEM DESCRIPTION   | UNIT | QUAN. | UNIT                   | TOTAL        | UNIT                          | TOTAL          | UNIT                      | TOTAL        |
| NO.            |  |      |       | PRICE                  | AMOUNT       | PRICE                         | AMOUNT         | PRICE                     | AMOUNT       |
|                |  |      |       | REYNOLDS INLINER, LLC. |              | INSITUFORM TECHNOLOGIES, INC. |                | REPIPE CONSTRUCTION, LTD. |              |
| BASE BID ITEMS |  |      |       |                        |              |                               |                |                           |              |
| 1              | Cured-in-place lining of 36" sanitary sewer  | LF   | 6,000 | \$150.00               | \$900,000.00 | \$177.00                      | \$1,062,000.00 | \$140.00                  | \$840,000.00 |
| 2              | Cured-in-place lining of 42" sanitary sewer  | LF   | 1,450 | \$227.00               | \$329,150.00 | \$223.00                      | \$323,350.00   | \$275.00                  | \$398,750.00 |
| 3              | Manhole wall liner for 4-ft. diameter manhole, 1-inch cementitious plus 100 mils epoxy or 1-inch SewperCoat  | VF   | 760   | \$180.00               | \$136,800.00 | \$165.00                      | \$125,400.00   | \$183.70                  | \$139,612.00 |
| 4              | Manhole wall liner for box-shaped structures or manholes greater than 4-ft. diameter, 1-inch cementitious plus 100-mils epoxy or 1,000 mils SewperCoat   | SF   | 2,220 | \$14.00                | \$31,080.00  | \$12.00                       | \$26,640.00    | \$14.68                   | \$32,589.60  |
| 5              | Additional thickness of manhole wall liner, 1-inch cementitious or SewperCoat  | SF   | 3,560 | \$7.00                 | \$24,920.00  | \$6.00                        | \$21,360.00    | \$6.60                    | \$23,496.00  |
| 6              | Manhole wall liner for 4-ft. diameter manhole, 100 mils epoxy or 500 mils SewperCoat   | VF   | 131   | \$114.00               | \$14,934.00  | \$87.50                       | \$11,462.50    | \$114.40                  | \$14,986.40  |
| 7              | Replace 24" manhole ring and cover with 24" ring and cover to grade  | EA   | 19    | \$750.00               | \$14,250.00  | \$700.00                      | \$13,300.00    | \$522.50                  | \$9,927.50   |
| 8              | Replace 32" manhole ring and cover with 32" manhole ring and cover to grade  | EA   | 7     | \$1,000.00             | \$7,000.00   | \$800.00                      | \$5,600.00     | \$577.50                  | \$4,042.50   |
| 9              | Additional cleaning (all types, including mechanical cleaning) of 36" sanitary sewer   | LF   | 6,000 | \$33.00                | \$198,000.00 | \$15.00                       | \$90,000.00    | \$30.00                   | \$180,000.00 |
| 10             | Remove wall in manhole bench at MH 1661 & MH 1664 to the flowline  | EA   | 2     | \$600.00               | \$1,200.00   | \$700.00                      | \$1,400.00     | \$385.00                  | \$770.00     |
| 11             | Replace 24" manhole ring and cover with 24" ring and cover to grade at manhole 1684A on Hwy 6 up to 2-ft. depth and rehabilitate with cementitious and epoxy wall liner, including traffic control, pavement restoration | LS   | 1     | \$4,000.00             | \$4,000.00   | \$5,200.00                    | \$5,200.00     | \$4,832.50                | \$4,832.50   |
| 12             | Additional depth of adjustment of ring and cover at MH 1684A   | VF   | 4     | \$500.00               | \$2,000.00   | \$225.00                      | \$900.00       | \$57.20                   | \$228.80     |
| 13             | Clean (all types) and TV of 24-inch sanitary sewer siphon, including bypass pumping  | LF   | 380   | \$40.00                | \$15,200.00  | \$50.00                       | \$19,000.00    | \$44.00                   | \$16,720.00  |
| 14             | Cured-in-place lining of 24-inch sanitary sewer siphon, including bypass pumping   | LF   | 380   | \$125.00               | \$47,500.00  | \$110.00                      | \$41,800.00    | \$110.00                  | \$41,800.00  |
| 15             | Clean (all types) and TV of 18-inch sanitary sewer siphon, including bypass pumping  | LF   | 380   | \$30.00                | \$11,400.00  | \$40.00                       | \$15,200.00    | \$33.00                   | \$12,540.00  |
| 16             | Cured-in-place lining of 18-inch siphon sanitary sewer siphon, including bypass pumping  | LF   | 380   | \$100.00               | \$38,000.00  | \$90.00                       | \$34,200.00    | \$95.00                   | \$36,100.00  |
| 17             | Remove, dispose and install new hatch A on sanitary sewer siphon structure per detail in plan drawings   | EA   | 2     | \$3,500.00             | \$7,000.00   | \$4,500.00                    | \$9,000.00     | \$4,180.00                | \$8,360.00   |
| 18             | Remove, dispose and install new hatch B on sanitary sewer siphon structure per detail in plan drawings   | EA   | 2     | \$4,000.00             | \$8,000.00   | \$4,500.00                    | \$9,000.00     | \$4,180.00                | \$8,360.00   |
| 19             | Removal and disposal of 24-inch and 18-inch sluice gate valves in sanitary sewer siphon structure  | LS   | 1     | \$5,000.00             | \$5,000.00   | \$4,800.00                    | \$4,800.00     | \$6,380.00                | \$6,380.00   |
| 20             | 6" curb around inlet and outlet boxes  | LF   | 140   | \$24.00                | \$3,360.00   | \$66.00                       | \$9,240.00     | \$14.30                   | \$2,002.00   |

|                                  |  |      |       | LOW BIDDER             |                |                               |                |                           |                |
|----------------------------------|--|------|-------|------------------------|----------------|-------------------------------|----------------|---------------------------|----------------|
| ITEM                             | ITEM DESCRIPTION   | UNIT | QUAN. | UNIT                   | TOTAL          | UNIT                          | TOTAL          | UNIT                      | TOTAL          |
| NO.                              |  |      |       | PRICE                  | AMOUNT         | PRICE                         | AMOUNT         | PRICE                     | AMOUNT         |
|                                  |  |      |       | REYNOLDS INLINER, LLC. |                | INSITUFORM TECHNOLOGIES, INC. |                | REPIPE CONSTRUCTION, LTD. |                |
| 21                               | Replace 24" manhole ring and cover to grade, including traffic control, pavement restoration | EA   | 6     | \$4,000.00             | \$24,000.00    | \$2,825.00                    | \$16,950.00    | \$4,823.50                | \$28,941.00    |
| 22                               | Abandon existing manhole   | EA   | 1     | \$1,800.00             | \$1,800.00     | \$950.00                      | \$950.00       | \$1,155.00                | \$1,155.00     |
| 23                               | Service Reconnection (by remote)   | EA   | 1     | \$1,500.00             | \$1,500.00     | \$900.00                      | \$900.00       | \$500.00                  | \$500.00       |
| TOTAL BASE BID ITEMS:            |  |      |       |                        | \$1,826,094.00 |                               | \$1,847,652.50 |                           | \$1,812,093.30 |
| SUPPLEMENTAL BID ITEMS           |  |      |       |                        |                |                               |                |                           |                |
| 24                               | Point repair on 18-inch thru 24-inch sanitary sewer siphon                                   | EA   | 1     | \$5,000.00             | \$5,000.00     | \$5,000.00                    | \$5,000.00     | \$5,000.00                | \$5,000.00     |
| 25                               | Well pointing system for point repair on 18-inch thru 24-inch sanitary sewer siphon          | EA   | 1     | \$2,000.00             | \$2,000.00     | \$2,000.00                    | \$2,000.00     | \$2,000.00                | \$2,000.00     |
| 26                               | Remove and replace existing concrete pavement  | SY   | 60    | \$80.00                | \$4,800.00     | \$80.00                       | \$4,800.00     | \$80.00                   | \$4,800.00     |
| 27                               | Install extra cement stabilized sand backfill  | CY   | 60    | \$20.00                | \$1,200.00     | \$20.00                       | \$1,200.00     | \$20.00                   | \$1,200.00     |
| 28                               | Build manhole bench  | EA   | 5     | \$250.00               | \$1,250.00     | \$250.00                      | \$1,250.00     | \$250.00                  | \$1,250.00     |
| 29                               | Point repair on 36-inch to 48-inch sanitary sewer  | EA   | 2     | \$7,500.00             | \$15,000.00    | \$7,500.00                    | \$15,000.00    | \$7,500.00                | \$15,000.00    |
| 30                               | Service Reconnection (by excavation)   | EA   | 1     | \$400.00               | \$400.00       | \$400.00                      | \$400.00       | \$400.00                  | \$400.00       |
| 31                               | Additional Length of service line 4-inch to 6-inch   | LF   | 50    | \$20.00                | \$1,000.00     | \$20.00                       | \$1,000.00     | \$20.00                   | \$1,000.00     |
| 32                               | Well pointing system for point repair  | EA   | 2     | \$4,000.00             | \$8,000.00     | \$2,000.00                    | \$4,000.00     | \$2,000.00                | \$4,000.00     |
| 33                               | Miscellaneous allowance  | LS   | 1     | \$50,000.00            | \$50,000.00    | \$50,000.00                   | \$50,000.00    | \$50,000.00               | \$50,000.00    |
| TOTAL SUPPLEMENTAL ITEMS:        |  |      |       |                        | \$88,650.00    |                               | \$84,650.00    |                           | \$84,650.00    |
| ADD ALTERNATE NO. 1 BID ITEMS    |  |      |       |                        |                |                               |                |                           |                |
| 34                               | Cured-in-place lining of 48" sanitary sewer  | LF   | 620   | \$285.00               | \$176,700.00   | \$265.00                      | \$164,300.00   | \$375.00                  | \$232,500.00   |
| TOTAL ADD ALTERNATE NO. 1 ITEMS: |  |      |       |                        | \$176,700.00   |                               | \$164,300.00   |                           | \$232,500.00   |
| ADD ALTERNATE NO. 2 BID ITEMS    |  |      |       |                        |                |                               |                |                           |                |
| 35                               | Cured-in-place lining of 48" sanitary sewer  | LF   | 405   | \$285.00               | \$115,425.00   | \$324.00                      | \$131,220.00   | \$375.00                  | \$151,875.00   |
| TOTAL ADD ALTERNATE NO. 2 ITEMS: |  |      |       |                        | \$115,425.00   |                               | \$131,220.00   |                           | \$151,875.00   |
| TOTAL BASE BID ITEMS:            |  |      |       |                        | \$1,826,094.00 |                               | \$1,847,652.50 |                           | \$1,812,093.30 |
| TOTAL SUPPLEMENTAL ITEMS:        |  |      |       |                        | \$88,650.00    |                               | \$84,650.00    |                           | \$84,650.00    |
| TOTAL ADD ALTERNATE NO. 1 ITEMS: |  |      |       |                        | \$176,700.00   |                               | \$164,300.00   |                           | \$232,500.00   |
| TOTAL ADD ALTERNATE NO. 2 ITEMS: |  |      |       |                        | \$115,425.00   |                               | \$131,220.00   |                           | \$151,875.00   |
| TOTAL BID:                       |  |      |       |                        | \$2,206,869.00 |                               | \$2,227,822.50 |                           | \$2,281,118.30 |

**CITY OF SUGAR LAND**  
**STANDARD CONTRACT FOR CIVIL ENGINEERING CONSTRUCTION PROJECTS**  
(Rev. 11-2-09)

This City of Sugar Land Standard Contract for Civil Engineering Construction Projects (Contract) is made between the City of Sugar Land, Texas (City), and the Contractor. The City and the Contractor agree to the terms and conditions of this Contract, which consists of the following:

- I. Summary of Contract Terms
- II. Standard Contractual Provisions
- III. Contract Documents
- IV. Signatures

**I. Summary of Contract Terms.**

Project: East and West Sanitary Sewer Interceptor Rehabilitation Project – Phase 2

Contractor: Reynolds Inliner, LLC.

Name of Engineering Firm, if any: HDR/Claunch & Miller

Name of Owner's Project Manager: \_\_\_\_\_

Base Bid: \$1,914,744.00

Alternate Bid Item Nos.: 1 and 2

Total Alternate Bid Items Amount: \$ 292,125.00

Contract Price (Base Bid + Alternates): \$ 2,206,869.00, as may be adjusted by Change Orders

Effective Date of Contract: On the latest date of the dates executed by both parties

Date to Begin Work: Date specified in Notice to Proceed

Substantial Completion: Contractor must achieve Substantial Completion within **300** Calendar Days from date specified in Notice to Proceed, as the time may be adjusted by Change Order

Final Completion: Contractor must complete the Punch List within **30** Working Days from Substantial Completion

Liquidated Damage Amount for Failure to Meet Time for Substantial Completion: **\$500** per Working Day

Liquidated Damage Amount for Failure to Complete Punch List Items by Time for Final Completion: **\$50** per Working Day

*[The Legal Department has prepared this form contract for use by City employees without further legal review. The form allows for employees to insert information in specific provisions as necessary to complete the contract. The remaining Contract provisions are "read only" and may only be changed by the Legal Department. The Legal Department's signature on the contract assumes that City employees have not changed the form.]*

IV. Signatures. By signing below, the parties agree to the terms of this Contract:

**CITY OF SUGAR LAND**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**CONTRACTOR:**

By: \_\_\_\_\_

Name: DENISE MCCLANAHAN

Title: VICE-PRESIDENT

Date: APRIL 19 , 2011